

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P242715

Luminaire Tested: **S124RDR-S1195D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D840-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4516.5 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

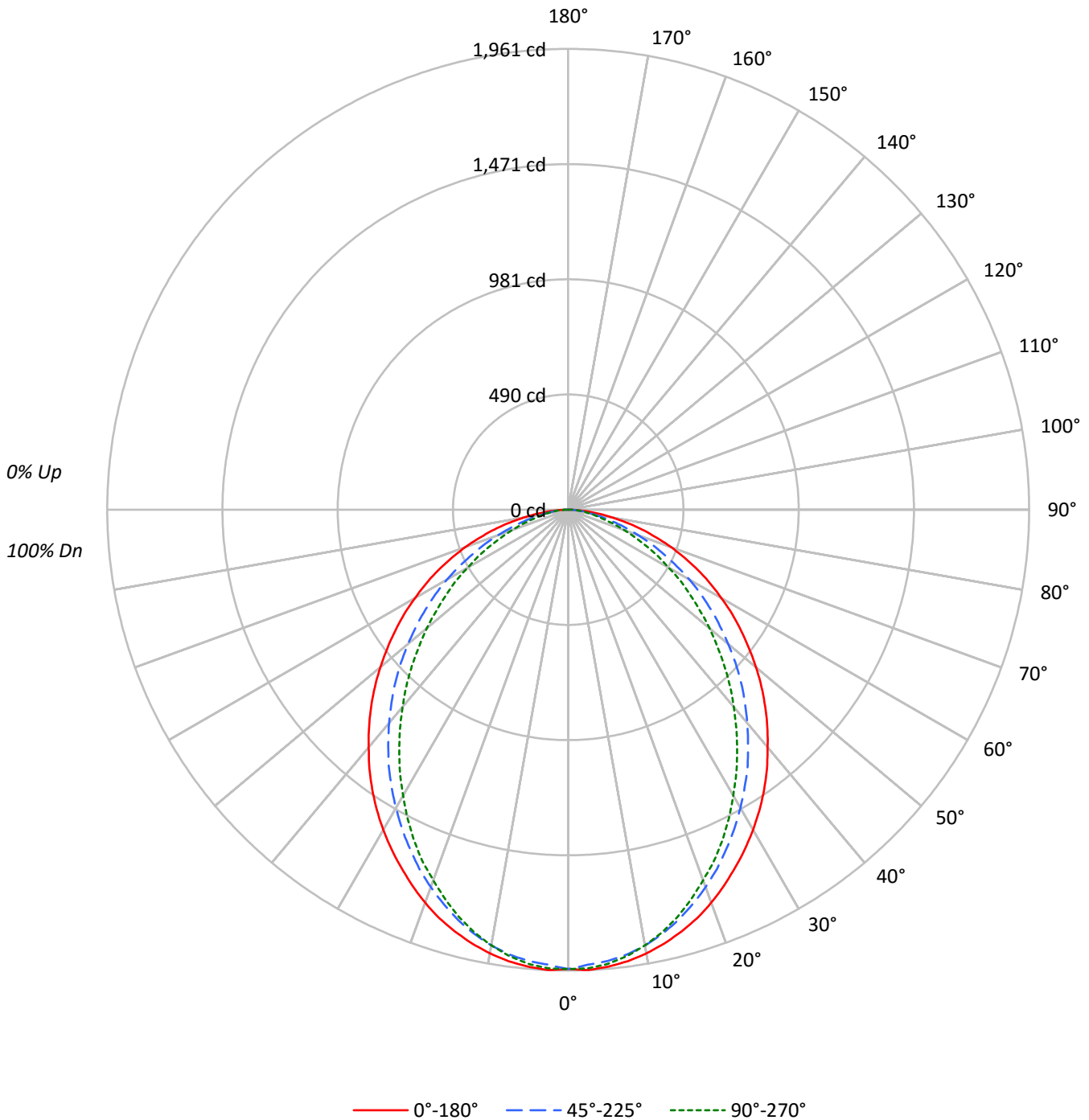
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17375	17375	17375
5°	17415	17201	17308
10°	17306	16994	16994
15°	17106	16638	16514
20°	16834	16168	15871
25°	16485	15619	15223
30°	16145	15040	14410
35°	15770	14439	13593
40°	15318	13755	12713
45°	14901	13076	11815
50°	14426	12294	10867
55°	13917	11482	9835
60°	13356	10590	8780
65°	12845	9475	7744
70°	12098	8246	6573
75°	11155	6838	5347
80°	9731	5211	4904
85°	8241	4732	4426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	4.1
10°-20°	512.5	11.3
20°-30°	739.9	16.4
30°-40°	838.6	18.6
40°-50°	809.6	17.9
50°-60°	673.1	14.9
60°-70°	464.6	10.3
70°-80°	234.8	5.2
80°-90°	59.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1436.2	31.8
0°-40°	2274.8	50.4
0°-60°	3757.5	83.2
0°-90°	4516.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4516.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1952	1946	1928	1943	1940	185
15°	1859	1845	1808	1805	1794	524
25°	1681	1654	1592	1567	1552	774
35°	1453	1405	1331	1280	1253	908
45°	1185	1130	1040	967	940	914
55°	898	838	741	663	635	803
65°	611	546	450	386	368	603
75°	325	269	199	165	156	343
85°	81	51	46	43	43	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.7	1954.7	1954.7	1954.7	1954.7
2.5°	1960.7	1954.7	1938.2	1954.7	1953.2
5°	1951.7	1945.7	1927.7	1942.7	1939.7
7.5°	1938.2	1932.2	1909.8	1920.3	1915.8
10°	1917.3	1909.8	1882.8	1888.8	1882.8
12.5°	1890.3	1881.3	1848.4	1851.4	1842.4
15°	1858.9	1845.4	1808.0	1805.0	1794.5
17.5°	1823.0	1803.5	1760.1	1752.6	1737.7
20°	1779.6	1760.1	1709.2	1697.3	1677.8
22.5°	1731.7	1709.2	1653.9	1634.4	1619.4
25°	1680.8	1653.9	1592.5	1567.0	1552.1
27.5°	1628.4	1595.5	1531.1	1501.2	1480.2
30°	1573.0	1535.6	1465.3	1427.8	1403.9
32.5°	1514.7	1471.3	1397.9	1353.0	1330.6
35°	1453.3	1405.4	1330.6	1279.7	1252.7
37.5°	1388.9	1339.5	1257.2	1201.8	1174.9
40°	1320.1	1270.7	1185.4	1122.5	1095.6
42.5°	1254.2	1201.8	1112.0	1047.7	1019.3
45°	1185.4	1130.0	1040.2	966.9	939.9
47.5°	1115.0	1058.2	965.4	889.0	859.1
50°	1043.2	984.8	889.0	814.2	785.8
52.5°	969.9	913.0	814.2	737.9	707.9
55°	898.0	838.2	740.9	663.0	634.6
57.5°	827.7	764.8	669.0	589.7	568.7
60°	751.3	691.5	595.7	517.9	493.9
62.5°	682.5	619.6	520.9	450.5	432.5
65°	610.7	546.3	450.5	386.1	368.2
67.5°	535.8	474.5	384.7	327.8	306.8
70°	465.5	402.6	317.3	267.9	252.9
72.5°	390.6	335.3	255.9	215.5	202.1
75°	324.8	269.4	199.1	164.6	155.7
77.5°	255.9	208.0	148.2	124.2	121.2
80°	190.1	146.7	101.8	97.3	95.8
82.5°	133.2	94.3	73.3	70.3	68.8
85°	80.8	50.9	46.4	43.4	43.4
87.5°	34.4	22.5	21.0	19.5	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)